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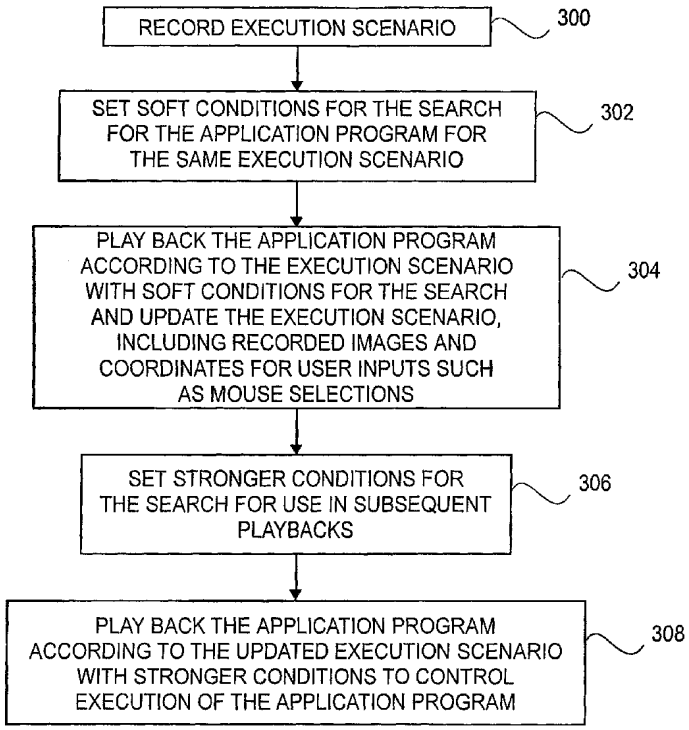
(54) **Title:** GRAPHICAL USER INTERFACE (GUI) NOISE REDUCTION IN A COGNITIVE CONTROL FRAMEWORK



(57) Abstract: Reducing graphical user interface (GUI) noise maybe achieved by recording a first execution scenario for control of operation of an application program having a GUI during a recording phase of operation of a cognitive control framework system, setting soft conditions for a search for the application program for the first execution scenario, playing back the application program according to the first execution scenario during a playback phase of operation of the cognitive control framework system, updating the first execution scenario to form a second execution scenario to reduce GUI noise conditions observed during playback, including updating recorded images originally generated by the GUI during the recording phase and updating coordinates for user input data, setting stronger conditions for the search for use in subsequent playbacks; and playing back the application program according to the second execution scenario with the stronger conditions for search.

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